

Inventor(s):

David C. Collins

Application No.: 10/820,952

Filing Date:

April 8, 2004

PATENT APPLICATION

ATTORNEY DOCKET NO.

200400670-1

Confirmation No.: Unkn.

Examiner: Unknown

Group Art Unit:

Unkn.

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Mail Stop Amendment **Commissioner For Patents** PO Box 1450 Alexandria, VA 22313-1450

#### TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

No additi	SIDS; Supp 1449	AMENDE	D BY 03		TUANA	CMA		ITITY	Fed	<b>\$</b>	
(1) FOR	CLAIMS AS (2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	нідні	(4) EST NU	MBER AID FOR	PRE	(5) SENT		(6) ATE		(7) TIONAL EES
TOTAL CLAIMS		MINUS				=	0	x	\$50	\$	0
INDEP. CLAIMS		MINUS				11	0	х	\$200	\$	0
	FIRST PRESENTATION	ON OF A MU	JLTIPLE	DEPE	NDENT C	LAIM		+	\$360	\$	0
EXTENSION FEE	1st Month \$120	2nd   \$45	Month 0		3rdMonti \$1020	h		4th M \$159	• · · · · ·	\$	0
•								OTHE	R FEES	\$	
		7	TOTAL A	DITIO	NAL FEE	FOR	THIS	AMEN	DMENT	s	0

Charge \$ 0 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

Date of Deposit: November 29, 2005

Typed Name:

COLL A. Lund

Signature

Respectfully submitted,

David C. Collins

Scott A. L Attorney/Agent for Applicant(s)

Reg No.:

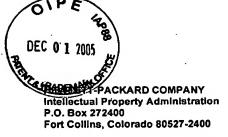
41,166

Date:

November 29, 2005

Telephone: (612) 573-2006

Rev 10/05 (TransAmd)



ATTORNEY DOCKET NO.

200400670-1

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):

David C. Collins

Confirmation No.: Unkn.

Application No.: 10/820,952

Examiner: Unknown

Filing Date:

April 8, 2004

Group Art Unit: Unkn.

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Mail Stop Amendment Commissioner For Patents PO Box 1450 Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is submitted:  under 37 CRF 1.97 (b), or  (Within three months of filing national application; or date)	e of entry of national application; or before mailing
date of first action on the merits; whichever occurs last)	e of entity of flational application, of botole finding
under 37 CRF 1.97 (c), together with either a:  Statement under 37 CFR 1.97 (e), or  a \$180 fee under 37 CFR 1.17 (p), or  (After the CFR 1.97 (b) time period, but before final actions are seen as the company of the	on or notice of allowance, whichever occurs first)
under 37 CRF 1.97 (d), together with either a:  Statement under 37 CFR 1.97 (e)(1) or (2), and  a \$180 fee set forh in 37 CFR 1.17 (p)	
. (Filed after final action, a notice of allowance, on or before	
Please charge to Deposit Account <b>08-2025</b> the sum of \$ 0.00 please charge any fees required or credit any over payment to Depo	At any time during the pendency of this application, sit Account 08-2025 pursuant to 37 CFR 1.25.
Applicant(s) submit herewith form PTO 1449 - Information Disclopatents, publications or other information of which applicant(s) are a the examination of this application and for which there may be a duty	aware, which applicant(s) believe(s) may be material to
A concise explanation of the relevance of foreign language palanguage information listed on PTO Form 1449, as presently 1.56 (c) most knowledgeable about the content is given on the cited in a search report or other action by a foreign patent language version of the search report or action which indicate listed on form PTO 1449 and is enclosed.	understood by the individual(s) designated in 37 CFR e attached sheet, or where a foreign language patent is office in a counterpart foreign application, an english
It is requested that the information disclosed herein be made of recor	d in this application.
I hereby certify that this correspondence is being deposited with the United States Postal Service	Respectfully submitted,
as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450	David C. Collins
Date of Deposit: November 29, 2005	By Ash
OR	Scott A. Lune
I hereby certify that this paper is being transmitted to the Patent and Trademark Office	Attorney/Agent for Applicant(s)
facsimile number (571) 273-8300  Date of facsimile:	Reg No.: 41,166
Typed Name: Scott A. Lund	Date: November 29, 2005
Signature	Telephone: (612) 573-2006
Rev 10/05 (IDSCerj)	

DEC 0 1 2005 Under the

Sheet 1

PTO/SR/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Petent and Trademark Office; U.S. DEPARTMENT OF COMMERCE rwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known **Application Number** 10/820,952 Filing Date April 8, 2004 First Named Inventor David C. Collins Art Unit Unknown **Examiner Name** Unknown **Attorney Docket Number** 200400670-1

Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Number-Kind Code <sup>2 (f known)</sup>		, opinion on one of the control of t	Figures Appear	
/JSS/		<sup>US-</sup> 5,530,482	06-25-96	Gove et al.		
1		<sup>US-</sup> 5,729,245	03-17-98	Gove et al.		
		US- 5,742,274	04-21-98	Henry et al.		
		<sup>US-</sup> 5,757,355	05-26-98	Ogura et al.		
		<sup>US-</sup> 6,825,835	11-30-04	Sano et al.		
1		US- 2003/0011614	01-16-03	Itoh et al.		
		US- 2003/0133060	07-17-03	Shimada		
		US-				
		US-				
		US-				
		US-				
	<u> </u>	บร-				
		US-				
		US-				
		US-				
		US-	<u> </u>			
		US-				
	<u> </u>	US-				
		US-	<u> </u>			

		FOREI	GN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	suntry Code <sup>3</sup> Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)	Y Or Relevant Figures	Or Relevant Figures Appear	T°
	ļ					
						<u> </u>
	<del> </del>			1		
····					• • • • • • • • • • • • • • • • • • • •	1

Examiner Signature	/Jeffrey Smith/	Date Considered	08/03/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation in not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IN THE

# UNITED STATES PATENT AND TRADEMARK OFFICE

entor(s):

David C. Collins

Confirmation No.:

ATTORNEY DOCKET NO. 200400670-1

Application No.: 10/820,952

Examiner: Unknown

Filing Date:

April 8, 2004

Group Art Unit:

Unkn.

Title:

GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Mail Stop **Commissioner for Patents** PO Box 1450 Alexandria, VA 22313-1450

	TRANSMITTAL LETTER F	R RESPONSE/AMENDMENT	
Sir:	ismitted herewith is/are the following in the	bove-identified application:	
( )	Response/Amendment	• • • • • • • • • • • • • • • • • • • •	end time to respond
( )	New fee as calculated below	( ) Supplemental [	Declaration
( )	No additional fee		
(X)	Other: SIDS; Supp 1449	(fee	) \$)
Г	CLAIMS AS AMENDED	BY OTHER THAN A SMALL ENTITY	

	CLAII	MS AS AME	NDED BY OT	HER THAN A	SMALL	ENTIT	Υ			
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) (4) NUMBER HIGHEST NUMBER EXTRA PREVIOUSLY PAID FOR		NUMBER HIGHEST NUMBER		5) SENT FRA	ş	(6) ATE	ADDI	(7) TIONAL EES
TOTAL CLAIMS		MINUS			=	0	×	\$18	\$	0
INDEP. CLAIMS		MINUS			=	0	×	\$88	\$	0
[ ] FIR	ST PRESENTATION OF	A MULTIPLE	DEPENDENT	CLAIM			+	\$300	\$	0
EXTENSION FEE	1ST MONTH \$110.00		MONTH 30.00	3RD MON \$980.00			1 MOI 530.0		\$	0
						C	THE	RFEES	\$	
			TOTAL A	DDITIONAL FI	EE FOR	THIS A	MEN	DMENT	\$	0

to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

Date of Deposit: Dec. 20, 2004

Typed Name: Scott A. Lund

Rev 10/04 (TransAmd)

Respectfully submitted,

David C. Colline

Attorney/Agent for Applicant(s)

Reg. No. 41,166

Date: Dec. 20, 2004

Telephone No.: (612) 573-2006

- Attach as First Page to Transmitted Papers -

Intellectual Property Administration P. O. Box 272400 Rort Collins, Colorado 80527-2400

ATTORNEY	DOCKET	NO.	200400670-1
711011121			<del>200700070-</del> 1

#### IN THE

### UNITED STATES PATENT AND TRADEMARK OFFICE

Inveritor(s):

David C. Collins

Confirmation No.:

Application No.: 10/820,952

Examiner: Unknown

Filing Date:

April 8, 2004

(x) under 37 CFR 1.97(b), or

Group Art Unit: Unkn.

Title:

57

GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Mail Stop Amendment Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is submitted:

(Within three months of filling national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last) ( ) under 37 CFR 1.97 (c) together with either a: ( ) Statement under 37 CFR 1.97(e), or ( ) a \$180.00 fee under 37 CFR 1.17(p), or (After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

( ) under 37 CFR 1.97 (d) together with a:

( ) Statement under 37 CFR 1.97(e)(1) or (2), and

( ) a \$180.00 fee set forth in 37 CFR 1.17(p).

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \_\$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

- Applicant(s) submit herewith Form PTO 1449 Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.
- ( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: Dec. 20, 2004 OR

( ) I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number on Number of pages:

Typed Name: Scott-A. Lund

Signature:

Rev 10/04 (IDSCERT)

Respectfully submitted,

David C. Collins

Scott A. Lýnď

Attorney/Agent for Applicant(s)

Reg. No. 41,166

Date: Dec. 20, 2004

Telephone No.: (612) 573-2006



PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork	k Reduction Act of 1995, no persons are required to	o respond to a collection of information	tion unless it contains a valid OMB control number			
Substitute for form 1449/PTO		Complete if Known				
		Application Number	10/820,952			
INICODM	ATION DISCLOSURE	Filing Date	April 8, 2004			
		First Named Inventor	David Collins			
	ENT BY APPLICANT	Art Unit	Unknown			
(Use as many sheets as necessary)		Examiner Name	Unknown			
01	-, 1	Attorney Docket Number	200400670-1			

			U. S. PATEN	DOCUMENTS	•
Examiner Initials*	Cite No.	Document Number  Number-Kind Code <sup>2 (I Internt)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JSS/		<sup>US-</sup> 5,386,253	01/1995	Fielding	
/JSS/	1	<sup>US-</sup> 6,657,603	12/2003	Demetrescu et al.	
		us-			
-	<u> </u>	US-			
•		US-			
	1	US-			
		us-			
		us-			
	<u> </u>	US-	N.		
		US-			
	<u> </u>	US-			
		US-			
	<u> </u>	US-			
	1	US-			
		US-			
		US-			

Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Г
Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (# known)	MM-DD-YYYY		Or Relevant Figures Appear		
					L
					t
					•

Examiner /Jeffrey Smith/ 08/03/2007 Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gog">www.uspto.gog</a> or MPEP 901.04. \*Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language

the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. "Applicant is to place a check mark nere in English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ATTORNEY DOCKET NO. 200400670-1

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

		_		
l n	WA	nto	-10	١.
	40	nto	113	

David C. Collins

**Confirmation No.:** 

**Application No.:** 

Examiner:

Filing Date:

herewith

**Group Art Unit:** 

Title:

GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

#### INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

( ) under 37 CFR 1.97(c) together with either a:

( ) Statement under 37 CFR 1.97(e), or

( ) a \$180.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

( ) under 37 CFR 1.97 (d) together with a:

( ) Statement under 37 CFR 1.97(e)(1) or (2), and

( ) a \$180.00 fee set forth in 37 CFR 1.17(p).

(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. ER314293775US

Date of Deposit Apr. 8, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

Ву

Typed Name: Denyse Dauphinais

Respectfully submitted,

David Ç. Collins

Christopher P. Kosh

Attorney/Agent for Applicant(s)

Reg. No. 42,760

Date: Apr. 8, 2004

Telephone No.: (512) 231-0533

Rev 10/03 (IDSXML)

Sheet 1 of 3

(Use se	PUBLICATION DATE  3,784 Feb. 1983  2,746 May 5, 1987  1,003 Mar. 1989  3,619 Sep. 11, 1990  1,049 Oct. 29, 1991  3,857 Jan. 28, 1992  5,356 Sep. 1992	S. PATENT  None Horn Strat  Horn Horn Horn	200400670-1 APPLICANT David C. Collins FILING DATE Herewith  DOCUMENTS  NAME Dmura et al. beck thman et al. beck	Pages, Colu Relevant Passag	mns, Lines Where ges or Figures Appe	ear	
Column	### SINFORMATION DISCLOSURE STATEMENT    Veral sheets if necessary    GNATION	S. PATENT  None Horn Strat  Horn Horn Horn Horn	David C. Collins FILING DATE Herewith  DOCUMENTS  NAME Domura et al. beck thman et al.	Pages, Colu	mns, Lines Where Jes or Figures Appe	rar	
TE   Page   Pa	GNATION U.S  CCUMENT PUBLICATION  DATE  3,784 Feb. 1983  2,746 May 5, 1987  1,003 Mar. 1989  3,619 Sep. 11, 1990  1,049 Oct. 29, 1991  3,857 Jan. 28, 1992  6,356 Sep. 1992	None Horn Strat Horn Horn Horn Horn	PILING DATE Herewith  DOCUMENTS  NAME  Domura et al.  beck  thman et al.	Pages, Colu	mns, Lines Where ges or Figures Appe	ear	
TE   Page   Pa	GNATION U.S  OCUMENT PUBLICATION  3,784 Feb. 1983  2,746 May 5, 1987  1,003 Mar. 1989  3,619 Sep. 11, 1990  1,049 Oct. 29, 1991  3,857 Jan. 28, 1992  5,356 Sep. 1992	None Horn Strat D Horn Horn U Horn Horn Horn Horn	NAME Dmura et al. beck thman et al.	Pages, Colu	mns, Lines Where ges or Figures Appe	nar	
DEXAMINER   DEXAMINER     DEXAMINER	PUBLICATION DATE  3,784 Feb. 1983  2,746 May 5, 1987  1,003 Mar. 1989  3,619 Sep. 11, 1990  1,049 Oct. 29, 1991  3,857 Jan. 28, 1992  5,356 Sep. 1992	None Horn Strat  Horn  Horn  Horn  Horn  Horn	NAME  Dmura et al.  beck  thman et al.	Pages, Colu Relevant Passag	mns, Lines Where ges or Figures Appe	nar —	
INITIAL //JSS/ 1A 4,373 1B 4,662 1C 4,811 1D 4,956	NUMBER DATE  3,784 Feb. 1983  2,746 May 5, 1987  1,003 Mar. 1989  3,619 Sep. 11, 1990  1,049 Oct. 29, 1991  3,857 Jan. 28, 1992  5,356 Sep. 1992	None Horn Strat  Horn  Horn  Horn  Horn	omura et al. ibeck thman et al. ibeck	Pages, Colu Relevant Passag	mns, Lines Where ges or Figures Appe	ear	
1A 4,373 1B 4,662 1C 4,813 1D 4,956	2,746 May 5, 1987 1,003 Mar. 1989 3,619 Sep. 11, 1990 1,049 Oct. 29, 1991 3,857 Jan. 28, 1992 5,356 Sep. 1992	Horn Strat D Horn I Horn 2 Horn	beck thman et al. beck			<u> </u>	
1C 4,81	Mar. 1989  Sep. 11, 1990  1,049  Oct. 29, 1991  3,857  Jan. 28, 1992  Sep. 1992	Strat  Horn  Horn  Horn	thman et al.			<del>_</del>	
1D 4,956	3,619 Sep. 11, 1990 1,049 Oct. 29, 1991 3,857 Jan. 28, 1992 5,356 Sep. 1992	Horn Horn Horn	beck				
<del></del>	1,049 Oct. 29, 1991 3,857 Jan. 28, 1992 6,356 Sep. 1992	Horn Horn	•				
1E 5,06°	3,857 Jan. 28, 1992 6,356 Sep. 1992	Horn Horn	•			_	
<del></del>	6,356 Sep. 1992					<del></del>	
1F   5,08:		<del></del>	beck			-	
1G 5,14	7,409 May 1994	Carls	son			_	
1H 5,31		Mac	ocs				
11 5,490	D,009 Feb. 6, 1996	Venl	cateswar et al.			-	
1J 5,55	7,353 Sep. 1996	Stah	1				
1K 5,689	9,283 Nov. 18, 1997	7 Shire	ochi			—	
			PATENT DOCUME	<del>,</del>		Check if	
1 4	CUMENT PUBLICATION IUMBER DATE	1	ME OF PATENTEE OR APPLICANT	Pages/Columns/l Relevant Passages/	Lines Where Figures Appear	Translation attached	
	001306A2 May 17, 2000	Olympu	s Optical Co.,			X	
1M							
1N							
10							
1P							
0.	THER REFERENCES (incl	luding Auth	nor, Title, Date, Pe	rtinent Pages, etc	c.)		
/JSS	1. Chen and S. Hasagawa, jectors" Displays, Techno	"Visual Res logies, and	olution Limits for Co Applications, Vol. 1	olor Matrix Displays 3, pp. 221-226, 19	", "One Panel 92.		
/JSS/ 1R A. 299	A. Yasuda et al., "FLC Wobbling for High-Resolution Projectors", Journal of the SID 5/3 1997, pp. 299-305.						
/JSS/ 15 T. 200	Tokita et al., "P-108: FLC   02, pp. 638-641.	Resolution-E	nhancing Device for	Projection Displays	s", SID 02 Digest	t	
EXAMINER	/Jeffrey Smith/	1 -	DATE CONSIDERE	08/03/2007			

Rev 10/03 (PTO1449)

Sheet 2 of 3

FO	RM P	TO-1449	<del>-</del> -	- 1	ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMA	TION
LIS	ST OF	PATENTS AND P	UBLICATIONS FOR		200400670-1				
AP	PLIC	ANT'S INFORMAT	ION DISCLOSURE		APPLICANT				
		STATI	EMENT		David C. Collins FILING DATE		GROUP		
	(U	se several sheets	if necessary)		Herewith		J		
EFEREN	NCE	DESIGNATION	U.S. PA	TENT	DOCUMENTS				
AMINER NITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME	·	Pages, Columns Relevant Passages of	, Lines Where or Figures App	ear
/JSS/	2A !	5,912,773	Jun. 1999	Barn	ett et al.				
1	2B	5,920,365	Jul. 1999	Eriks	sson			<del> </del>	
	2C !	5,953,148	Sep. 1999	Mos	eley et al.				
	2D !	5,978,518	Nov. 2, 1999	Oliyi	ide et al.			<del> </del>	
	2E (	6,025,951	Feb. 15, 2000	Swa	rt et al.				
	2F (	6,067,143	May 2000	Tom	ita				
	2G	6,104,375	Aug. 15, 2000	Lam					
1	2H	6,118,584	Sep. 2000	Van	Berkel et al.				
	21	6,141,039	Oct. 31, 2000	Poet	tsch				
	2J (	6,184,969	Feb. 6, 2001	Ferg	ason	$\dashv$		·····	
lack race	2K (	6,219,017	Apr. 17, 2001	<del></del>	nada et al.			·	
	2L	DOCUMENT NUMBER	PUBLICATION DATE		ME OF PATENTEE OR APPLICANT	Rei	Pages/Columns/Lines evant Passages/Figu		Transla attach
	2M				·	+-			ļ
	2N		†		·	+-			<del> </del>
	20					-			<u> </u>
	2P	<del></del>	<u> </u>		· · · · · · · · · · · · · · · · · · ·	-			-
		OTHER RES							<u> </u>
	·	OTHER REF	ERENCES (including	g Auti	nor, Title, Date, P	ertin	ent Pages, etc.)		
/JSS/	20	D.H. Kelly, "M Optical Society	otion and Vision - II. y of America, Vol. 69	Stabi 9, No.	ilized Spatio-Tempo 10, October 1979.	ral Th	reshold Surface,"	Journal of th	ne
/JSS/	2R	Candice H. Brown Elliot et al., "Color Subpixel Rendering Projectors and Flat Panel Displays"; SMPTE Advanced Motion Imaging Conference; February 27-March 1, 2003; pgs. 1-4.							
/JSS/	28	Diana C. Chen No. 5, Februra	, "Display Resolutior ry 10, 2001, pp. 63	n Enhar 6-643.	ncement with Optic	al Sca	anners" Applied O	otics, Vol. 40	0,
XAMIN	ER				DATE CONSIDER	ED			
		/Jeffrey Smitl	n/				/2007		

Sheet 3 of 3

							<del></del>		
F	ORM	PTO-1449			ATTY. DOCKET NO. 200400670-1		APPLICATION NO.	CONFIRMAT	TION
Ļ	ST O	F PATENTS AND P	UBLICATIONS FOR		APPLICANT		·	<u> </u>	
A	PPLIC	ANT'S INFORMATI	ION DISCLOSURE		David C. Collins				
	a	Use several sheets			FILING DATE		GROUP	<del></del>	
					Herewith				
EFERE	NCE	DESIGNATION	U.S. PA	TEN	T DOCUMENTS				
AMINER DOCUMENT PUBLICATION NUMBER DATE				NAME		Pages, Column Relevant Passages			
JSS/	ЗА	6,239,783	May 29, 2001	Hill	et al.		•		
	3B	6,243,055	Jun. 5, 2001	Fer	gason			<u></u>	
	3C	6,313,888	Nov. 6, 2001	Tab	oata				
	3D	6,384,816	May, 6, 2002	Tat	oata				
	3E	6,393,145	May 21, 2002	Bet	risey et al.				
	3F	6,522,356	Feb. 2003	W	atanabe				
	3G	2003/0020809	Jan. 30, 2003	Gil	obon et al.				_
1	ЗН	2003/0076325	Apr. 2003	Th	rasher	<del></del>			_
V	31	2003/0090597	May 15, 2003	Ka	toh et al.			•	_
	31					- t			
	зк			1			· · · · · · · · · · · · · · · · · · ·		<del></del>
	ЗL						evant Passages/Fig		attaci
	ЗМ							····	<del></del>
	3N								
	30								
	ЗР								
		OTHER REF	ERENCES (includin	g Au	thor, Title, Date, F	Pertine	ent Pages, etc.)		<u> </u>
	30	1							
		•							
	ı	1				<del></del>			·
<del></del>	3P								
	ЗЯ								
	3R								
	3R								
EXAMII	38		Smith/		DATE CONSIDER	RED (	18/03/2007		

T-PACKARD COMPANY P.O. Box 272400

Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO.

200400670-1

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):

David C Collins

Confirmation No.: 9712

Application No.: 10/820952

Examiner:

Filing Date:

Apr 08, 2004

**Group Art Unit:** 

Title: Generating And Displaying Spatially Offset Sub-Frames

**Mail Stop Amendment Commissioner For Patents** PO Box 1450 Alexandria, VA 22313-1450

### **INFORMATION DISCLOSURE STATEMENT**

This Information Disclosure Statement is submitted:	
under 37 CRF 1.97 (b), or	•
(Within three months of filing national application; or date of first action on the merits; whichever occurs last	
under 37 CRF 1.97 (c), together with either a:	
Statement under 37 CFR 1.97 (e), or	
a \$180 fee under 37 CFR 1.17 (p), or	
(After the CFR 1.97 (b) time period, but before final ac	tion or notice of allowance, whichever occurs first)
under 37 CRF 1.97 (d), together with either a:	
Statement under 37 CFR 1.97 (e)(1) or (2), and	
a \$180 fee set forh in 37 CFR 1.17 (p)	
(Filed after final action, a notice of allowance, on or be	·
Please charge to Deposit Account <b>08-2025</b> the sum of \$ 0.00 please charge any fees required or credit any over payment to Dep	
Applicant(s) submit herewith form PTO 1449 - Information Discipatents, publications or other information of which applicant(s) are the examination of this application and for which there may be a dut	aware, which applicant(s) believe(s) may be material to
A concise explanation of the relevance of foreign language planguage information listed on PTO Form 1449, as present 1.56 (c) most knowledgeable about the content is given on the cited in a search report or other action by a foreign paten language version of the search report or action which indicat listed on form PTO 1449 and is enclosed.	y understood by the individual(s) designated in 37 CFR ne attached sheet, or where a foreign language patent is toffice in a counterpart foreign application, an english
It is requested that the information disclosed herein be made of reco	rd in this application.
I hereby certify that this correspondence is being	December 11 of house
deposited with the United States Postal Service as first class mail in an envelope addressed to:	Respectfully submitted,
Commissioner for Patents, Alexandria, VA 22313-1450	David C Collins
Date of Deposit: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	By / limethy / Mly-
ok " "	Timothy F. Myers
I hereby certify that this paper is being	, , ,
transmitted to the Patent and Trademark Office	Attomey/Agent for Applicant(s)
facsimile number (571) 273-8300  Date of facsimile:	Reg No. : 42,919
Typed Name: Timothy F. Myers	Date: 1/17/0(0
Signature: D W. F. F.	Telephone: 541 715 4197
Rev 10/05 (iDSCerl)	relephone : 3417134137
	•

PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE JAN 1 9 2006 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

bstitute for form 1449/PTO

Sheet 1

PARTA PRADE

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete If Known					
Application Number ,	10/820952				
Filing Date	Apr 08, 2004				
First Named Inventor	Collins				
Art Unit	Unknown				
Examiner Name	Unknown				
Attorney Docket Number	200400670-1				

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (6 known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
7100	,	Number-Kind Code	100.00.000		
/JSS	1	US- 2002/075202A1	06-20-2002	Fergason	
		US-			
		US-	•		
		US-			
<del></del>		US-			
		US-			
•		US-			
		US-			
		US-	•		
		US-		:	

Examiner Cite Initials* No.1		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Γ
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (# known)	MM-DD-YYYY			1
JSS/		EP 1 503 335 A	02-02-2005	HP		
1		EP 1 388 838 A	02-11-2004	HP	. 44	
1/		EP 1 388 839 A	02-11-2004	HP.		L
V		WO 02/03688A ·	01-10-2002	lmax		E
						T
	·					

Examiner Signature	/Jeffrey Smith/	Date Considered	08/03/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.usgio.gov">www.usgio.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senal number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language

Trainstation is all antiched.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitu	ite for form 1449/PTO			Complete if Known			
0430411				Application Number	10/820952		
INF	ORMATION	I DIS	CLOSURE	Filing Date	Apr 08, 2004		
STA	ATEMENT E	BY A	PPLICANT	First Named Inventor	Collins		
	(Use as many sh		eeeeeend	Art Unit	Unknown		
	(Ose as many an		ocessary)	Examiner Name	Unknown		
Sheet	2	of	2	Attorney Docket Number	200400670-1		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/JSS/		Jaynes et al, "Super-Resolution Composition in Multi-Projector Display", IEEE Intl Workshop, Oct 12, 2003	
/JSS	1	Irani et al, "Improving Resolution by Image Registration", Graphical Models and Image Processing, May 1991, No. 3	
		·	
		-	
,			
		·	

		·	
Examiner Signature	/Jeffrey Smith/	Date Considered	08/03/2007

\*EXAMINER: Initial if reference considered, whether or not citation Is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.